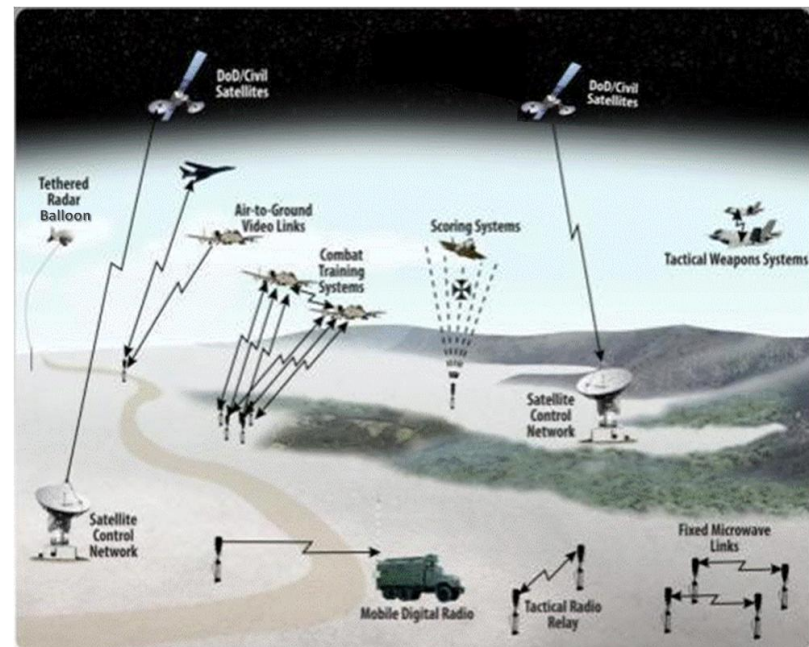




1755 – 1850 MHz Spectrum Sharing

Federal Government Spectrum Activities 1755 – 1850 MHz

- NTIA identified Fast Track Report (Oct 2010)
- Identified the following systems:
 - Fixed point-to-point microwave
 - Military tactical radio relay
 - Air combat training system
 - Precision guided munitions
 - Law enforcement mobile video surveillance
 - High-res (fixed or transportable) video data links for surveillance
 - Tracking, telemetry, & command for federal space systems
 - Air-to-ground telemetry
 - Land mobile robotic video functions (e.g., explosive ordnance disposal (EOD) and hazardous material investigations and disposals)
 - Unmanned aerial systems (UAS), unmanned aerial vehicles (UAV), and remotely piloted vehicles (RPV)



CSMAC Working Groups

- WG1: 1695-1710 MHz Meteorological-Satellite
 - Improved modeling of commercial wireless network and possible reduction of exclusion zones
- WG2: 1755-1850 MHz Law Enforcement Surveillance, Explosive Ordnance Disposal, and other short distance links
 - Correlation of agency city by city transition plans with industry implementation priorities, prioritizing vacating the 1755-1780 MHz portion
- WG3: 1755-1850 MHz Satellite Control and Electronic Warfare
 - Definition and specification (including any interference acceptance rules) of zones around satellite sites
 - Coordination path and rules for electronic warfare development and training
- WG4: 1755-1850 MHz Tactical Radio Relay and Fixed Microwave
 - Definition and specification (including any interference acceptance rules) of zones around DoD sites that require access
 - Relocation process of fixed microwave links starting from the 1755-1780 MHz
- WG5: 1755-1850 MHz Airborne Operations (Air Combat Trainings System, Unmanned Aerial Vehicles, Precision-Guided Munitions, Aeronautical Telemetry)
 - Determination of protection requirements for federal operations
 - Understanding of periodic nature and the impact to commercial wireless of government airborne operations

CSMAC Direction

- Working Groups will produce written recommendations to the CSMAC concerning
 - Approaches to sharing
 - Transition and/or relocation of the band that will determine the steps that will have to be taken
 - Any factors that may reduce the projected costs, or limitations or restrictions on spectrum availability
- For the 1755-1850 MHz band, need to consider steps that might support earlier auction and entrance of service providers in the 1755-1780 MHz portion, where feasible, while maintaining the goal of the entire 1755-1850 MHz band (i.e., cannot simply relocate from 1755-1780 into upper portion)
- Each group is must try to determine if incoming industry systems can or cannot share with a particular incumbent federal system.
- Where sharing is feasible, the groups should explain the proposed manner of sharing in a way that could potentially be incorporated into service rules
- Where available and appropriate, WGs should use information coming out of the measurements.
- Reports due by June 2013

1755 – 1850 MHz Allocations

AGENCY	WG-2			WG-3	WG-4		WG-5				TOTALS
	Law Enforcement Mobile Video Surveillance Applications	Land Mobile Robotic Video Functions (e.g. EOD & Hazardous Waste Disposal, etc)	High-Resolution Video Surveillance (fixed or transportable)	Telemetry, Tracking, and Commanding for Federal Space Systems	Fixed Point To Point Microwave	Military Tactical Radio Relay	Air Combat Training Systems	Precision Guided Munitions	Air-to-Ground Telemetry	UAS, UAV, RPV	
AF (Air Force)		61	2	220	12		273	1	186	45	800
AID (Agency for International Development)			1								1
AR (Army)		4	36		45	408	4		19	378	894
DHS	25				152						177
DOC				1	8						9
DOE		2			91						93
DOI	1		1		26					6	34
DOJ	7	7	75								89
FAA					8						8
HHS (Health and Human Services)			1								1
HUD			6								6
MC (Marine Corps)					4	169				21	194
N (Navy)		6		48	14	2	430	20	303	14	837
OPM (Office of Personnel Management)			1								1
NASA									6	11	17
T (Treasury)			10								10
USCP			5								5
USPS			3								3
VA			4								4
(DOD)	0	71	38	268	75	579	707	21	508	458	2725
TOTAL	33	80	145	269	360	579	707	21	514	475	3183